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PHOTOGRAPHIC INTERPRETATION REPORT

SHEN-YANG ARSENAL 90TH, SHEN-YANG, CHINA



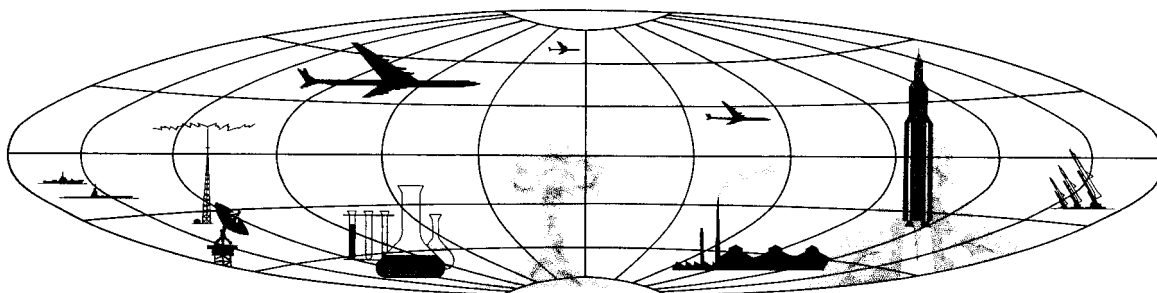
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SHEN-YANG ARSENAL 90TH, SHEN-YANG, CHINA

This report, prepared in response to requirement DIAAP IR5-2, is part of a series that will cover selected industrial installations in China.

Shen-yang Arsenal 90th [REDACTED], known as the 51st Arsenal by the Chinese Communists, is situated on the ESE edge of Shen-yang (Mukden) at 41-47-48N 123-29-30E.

Approximately 387 acres in area, including 2 small satellite walled loading areas, the

arsenal is road and rail served. Electrical power is furnished by an on-site thermal power plant and connects with the local power grid. Rail and water service is derived from the Shen-yang Complex [REDACTED]

The low level of raw materials, the small percentage of stacks emitting smoke, and the scarcity of vehicles/railroad cars present indicate a low level of plant activity in [REDACTED]

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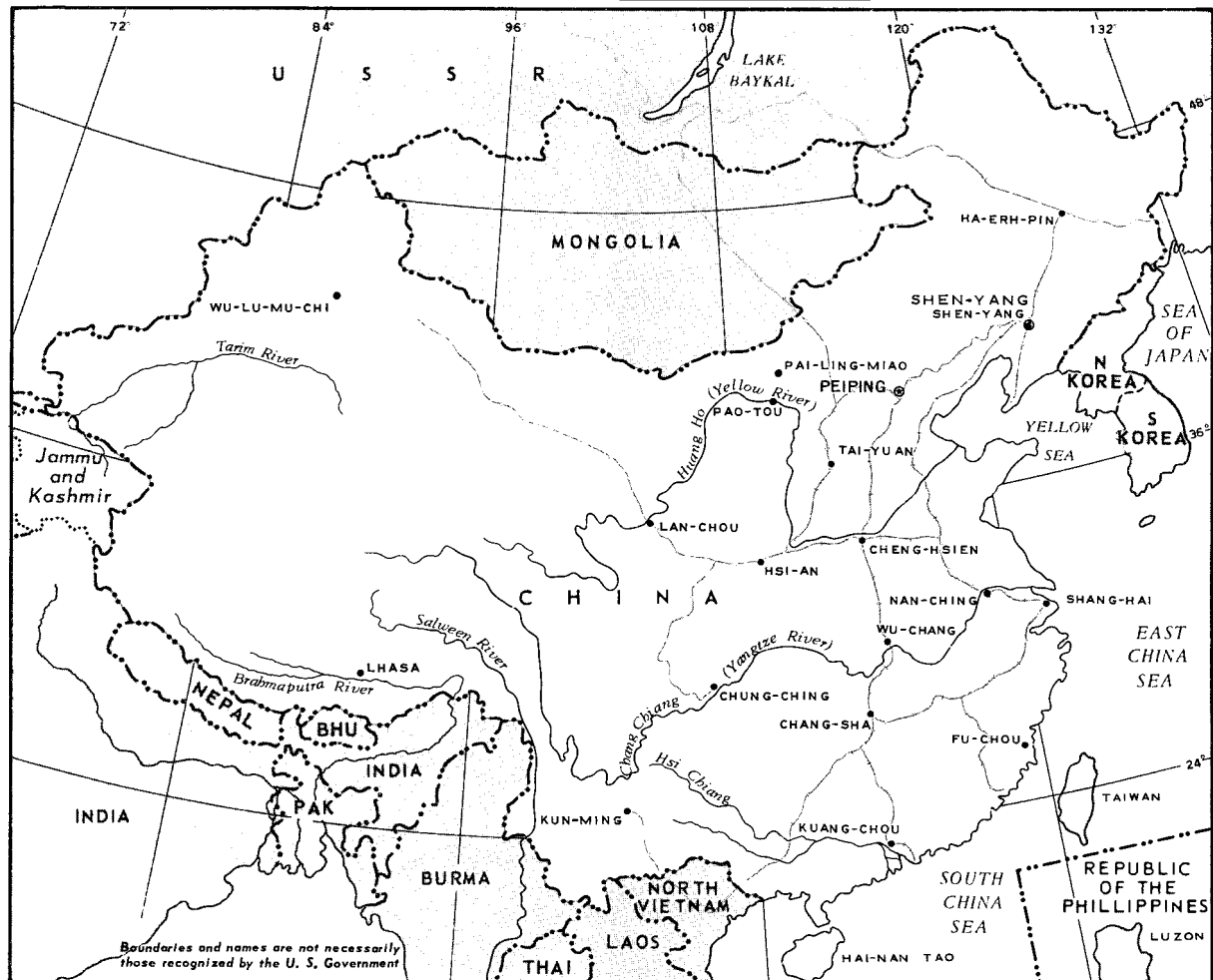


FIGURE 1. GENERAL LOCATION MAP.

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Major components of the arsenal, shown on Figure 2, are described in Table 1; major components of the Shell Loading Plant, shown on

Figure 3, are described in Table 2; and major components of the Ammunition Loading Plant, shown on Figure 4, are described in Table 3.

TABLE 1. Facilities at Shen-yang Arsenal 90th. (Items are keyed to Figure 2.)

Item	Type	Dimensions (ft)		Remarks
		Length	Width	
1	Administration and possible laboratory buildings			
2	Possible laboratory buildings			
3	Machine shop	320	150	
4	Machine and workshop	320	135	
5	Machine shop	215	150	
6	Machine and workshop	215	135	
7	Machine shop	175	85	
8	Machine shop	240	135	
9	Storage building	240	150	
10	Machine shop	240	135	
11	Storage building	160	90	
12	Machine shop	345	135	
13	Storage building	110	80	
14	15 fenced storage buildings	70	15	
15	Administration and security building	370	40	
16	Assembly building	570	250	
17	5 unidentified service buildings			
18	3 administration buildings			
19	Administration building	310	60	Multisectional
		70	25	
		70	25	
20	Assembly building	330	260	
21	Machine shop	160	50	
22	Machine shop	170	50	
23	Boilerhouse and coal stockpile	120	95	
24	Workshop	210	75	
25	Machine and workshop	210	175	
26	Assembly building	665	490	
27	Machine shop	150	120	
28	Storage building	140	120	
29	Storage building	145	105	
30	Unidentified building	95	90	
31	Unidentified building	160	65	
32	Motor vehicle storage and repair shed	200	70	
33	Administration building	95	55	
34	Storage building	180	25	
35	Workshop	200	85	
36	Possible forge	240	85	
37	Assembly building	665	275	
38	Workshop	320	95	Multisectional
		85	80	
		150	35	
39	Administration building	150	35	
40	Machine shop	220	150	
41	Workshop and storage yard	305	115	
		270	130	
42	Workshop	345	115	
43	Possible forge or smelter	240	50	
44	Assembly building	400	130	
45	Assembly building	440	250	
46	Workshop	205	65	
47	Machine shop	205	125	

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FIGURE 2. SHEN-YANG ARSENAL 90TH,

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Table 1. (Continued)

Item	Type	Dimensions (ft) Length Width		Remarks
48	Assembly building	425	225	
49	Workshop	240	65	
50	Storage building	220	75	
51	Assembly building	360	330	
52	Storage building	200	40	
53	Gantry crane			
54	Storage building	225	40	
55	Storage building	135	40	
56	Workshop	340	105	
57	Power plant and coal stockpile	175	150	
58	Workshop	135	50	
59	Workshop	225	105	
60	Building under construction	150	75	Completed by
61	Transformer yard			
62	Possible test building	125	50	
63	Security buildings and guard quarters			
64	Storage building	200	40	
65	Storage building	205	95	
66	4 unidentified objects on flatcars			
67	Machine and workshop	195	130	Multisectional
		150	75	
		80	35	
68	2 storage buildings			
69	Test area*			
	Engine test building	470	65	Seven wings or test bays with individual exhaust towers.
70	Test area*			One large former thermal power plant converted to house 3 engine test cells. Two smaller buildings built since one houses a large test cell and the other is unidentified.
71	Ordnance depot			Numerous warehouses and storage buildings, several small shops and maintenance buildings, a transformer yard, and one administration building totaling approximately 508,750 sq ft of floor space.

*Test areas may be an extension of the facilities at Shen-yang Aircraft Engine Plant 410.

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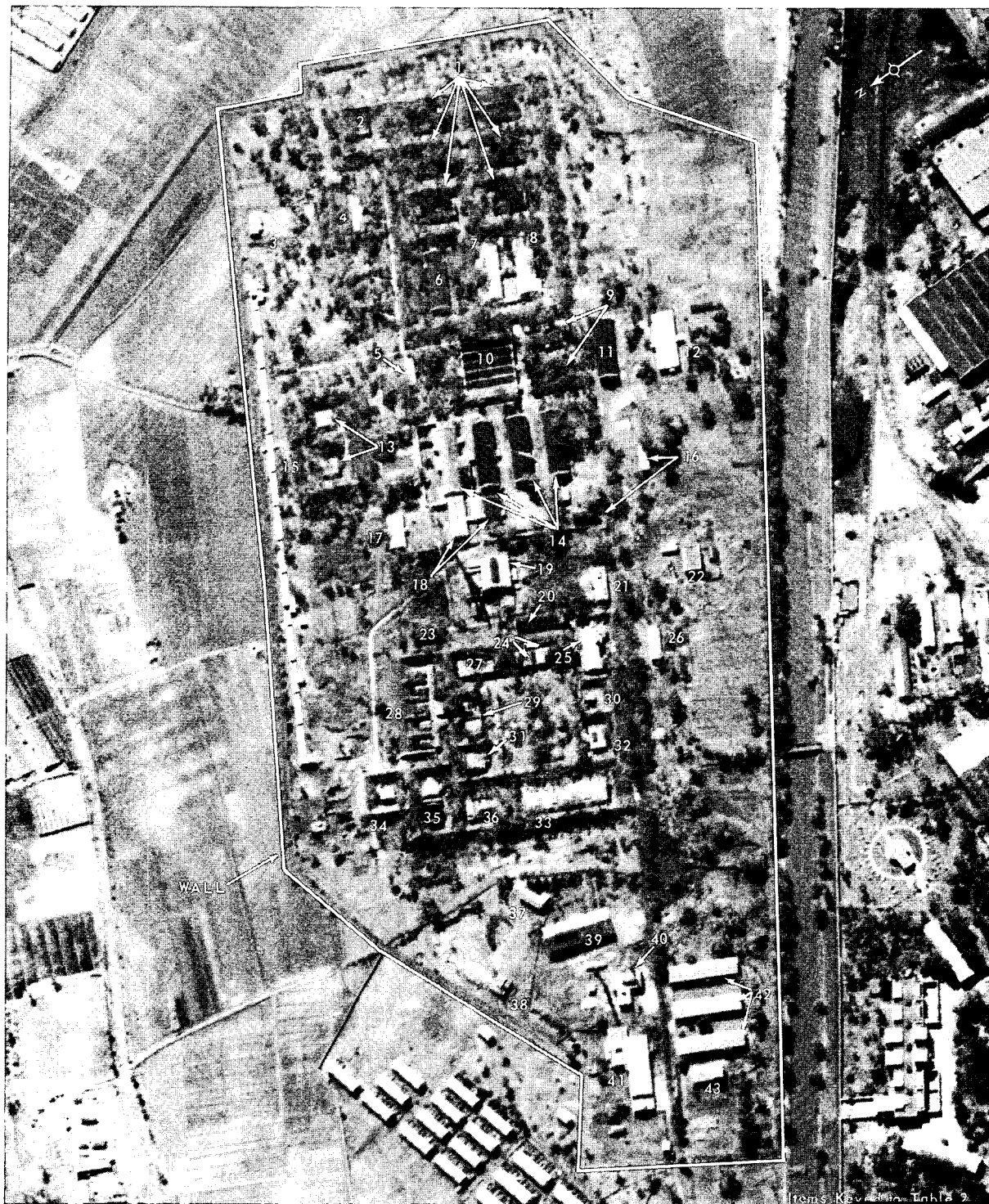


FIGURE 3. SHELL LOADING PLANT, [REDACTED]

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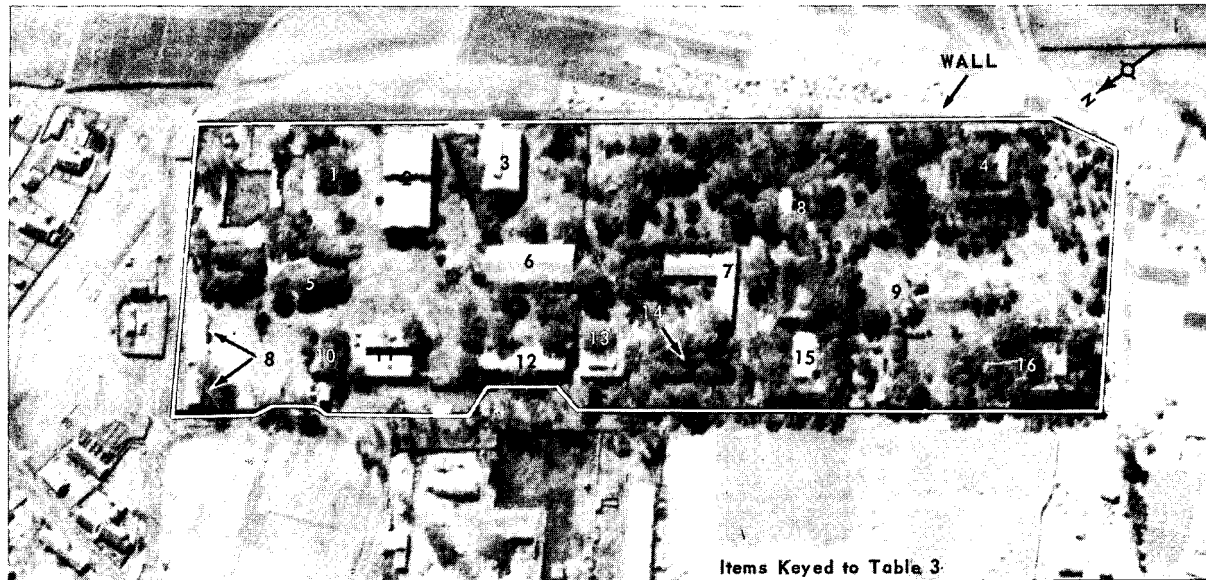
Table 2. Facilities at the Shell Loading Plant. (Items keyed to Figure 3.)

Item	Type	Dimensions (ft)		Remarks
		Length	Width	
1	6 revetted storage buildings*	70	40	Buildings have internal blast walls and concrete walls at each end
2	Revetted storage building	55	15	
3	Revetted storage building	50	30	
4	Storage building	80	25	
5	Storage building	75	20	
6	Processing building	115	35	Concrete walls at each end
7	Processing building	110	50	Connected to building 8 by covered walkways, concrete walls at each end
8	Processing building	110	45	Concrete walls at each end
9	2 processing buildings	95	35	Concrete walls at each end
10	Light assembly building	120	105	Concrete walls at each end
11	Processing building	120	35	Concrete walls at each end
12	Administration building	120	40	
13	2 revetted storage buildings	30	30	
14	4 processing buildings	140	35	Connected by covered walkways
15	Probable ballistics test buildings	1,030	15	100 and 300 meter ranges
16	2 storage buildings	55	20	
17	Probable administration building	55	40	
18	2 processing buildings	70	30	
19	Steam plant	105	60	2 stacks
20	Processing building	80	25	Concrete walls at each end
21	Processing building	70	25	Building has internal blast walls and concrete walls at each end
22	Probable utility building	55	30	
23	Bunkered storage building	80	40	
24	2 L-shaped revetted processing buildings	40	25	
25	Revetted processing building	90	40	
26	Storage building	70	25	
27	Revetted processing building	65	30	Building has internal blast walls
28	Revetted processing building	195	15	5 wings separated by blast walls
29	Revetted processing building	65	30	Building has internal blast walls and covered walkway to building 28
30	Revetted storage building	20	20	
31	Revetted processing building	25	25	
32	Revetted processing building	50	30	Concrete walls at each end
33	Revetted processing building	165	40	Internal blast walls
34	Revetted storage building	25	25	
35	Revetted processing building	90	40	Internal blast walls
36	Revetted processing building	70	40	
37	Storage building	50	25	
38	Former building site	135	30	Partially demolished
39	Probable maintenance building	140	55	
40	Steam plant	70	40	2 stacks
41	Administration/housing building	160	40	
42	3 storage buildings	140	35	
43	Support, possibly security, building	70	30	Partially multistoried

*All buildings are single-storied gable roof unless otherwise specified.

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Items Keyed to Table 3

FIGURE 4. AMMUNITION LOADING PLANT, [REDACTED]

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Table 3. Facilities at the Ammunition Loading Plant. (Items keyed to Figure 4.)

Item	Type	Dimensions (ft)		Remarks
		Length	Width	
1	Storage building	60	25	Concrete walls at each end
2	Processing building	150	75	Building has internal blast walls and concrete walls at each end
3	Heating plant	95	60	Single stack
4	Revetted storage building	45	30	
5	Administration/housing-type building	60	40	Hip-roofed
6	Probable storage building	135	60	
7	Probable processing building	105	35	L-shaped
	wing	45	30	
8	3 storage-type buildings	55	15	
9	Revetted storage building	25	25	
10	Processing building	60	30	Concrete walls at each end
11	Processing building complex	80	80	
12	Storage building	115	30	
13	Processing building	60	35	
14	Storage building	60	15	
15	Revetted processing building	65	25	Building has internal blast walls
16	Revetted processing building	35	15	

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MAPS OR CHARTS

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REQUIREMENT

DIAAP IR5-2

NPIC PROJECT

J-371/63 (partial answer)

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